

MONITOR

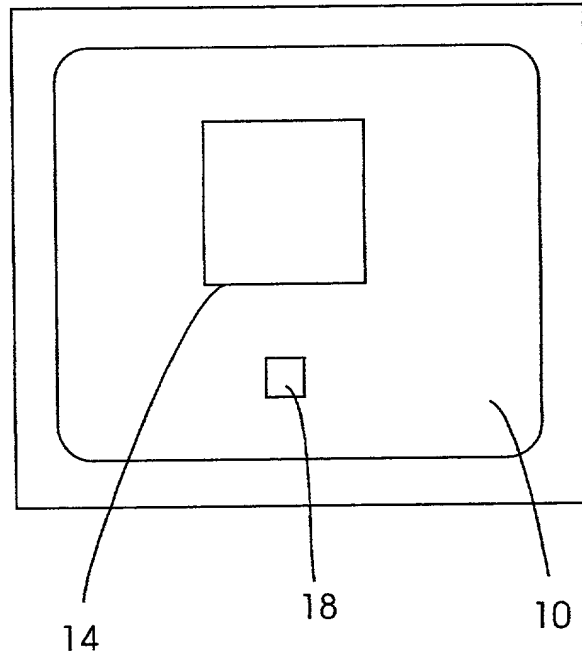


FIG. 1

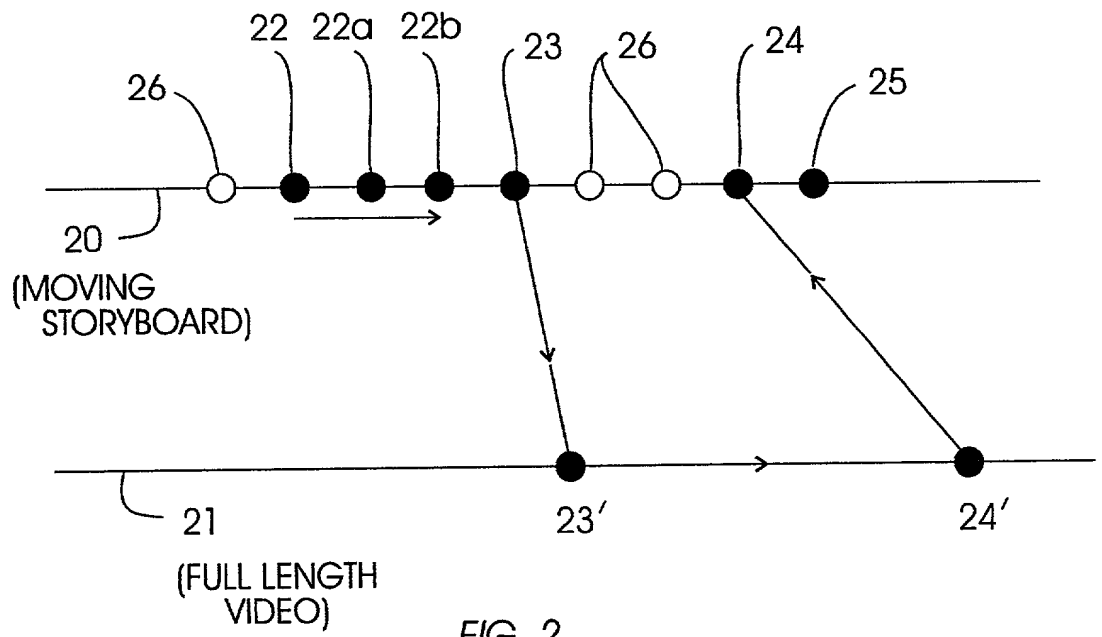


FIG. 2

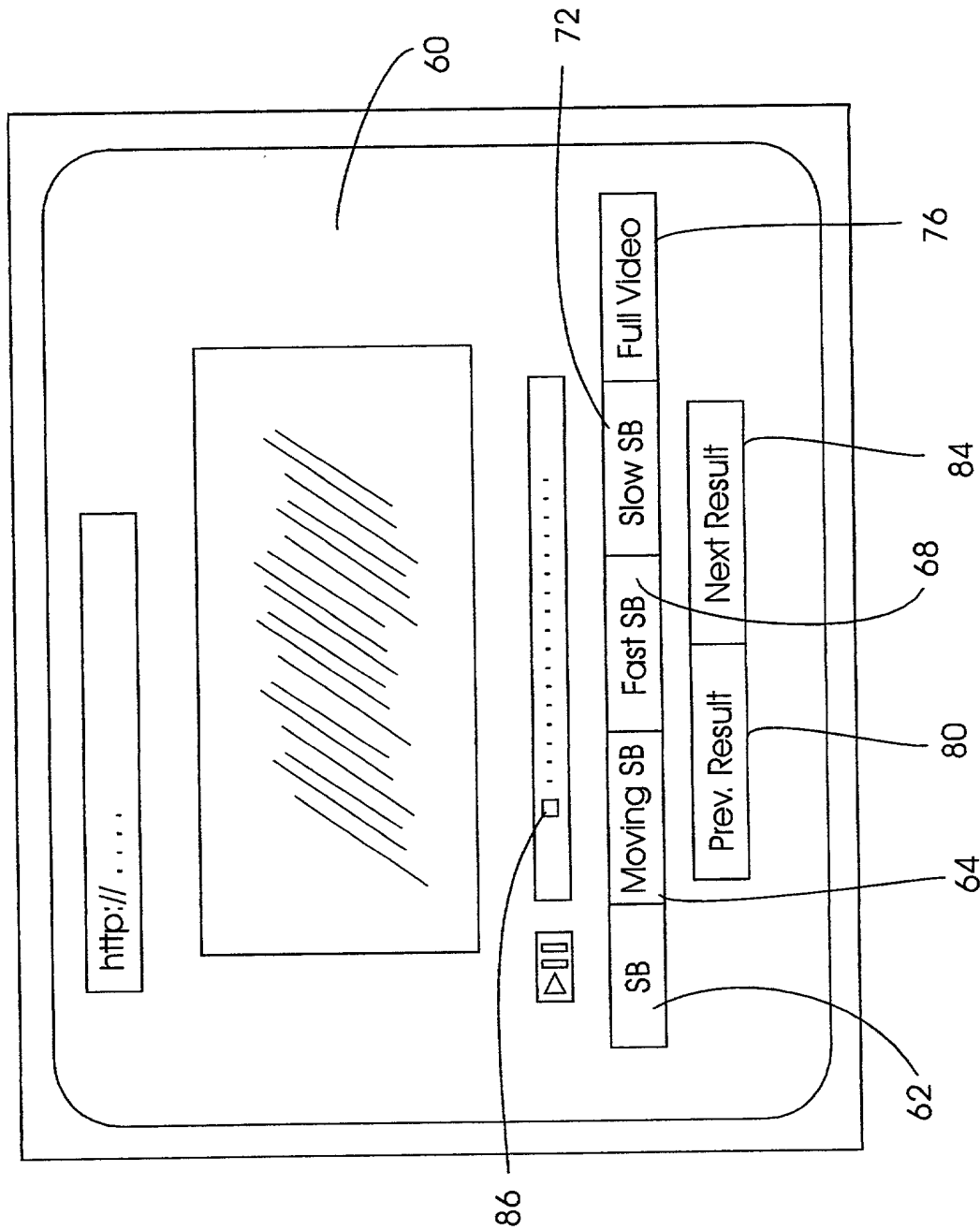


FIG. 3

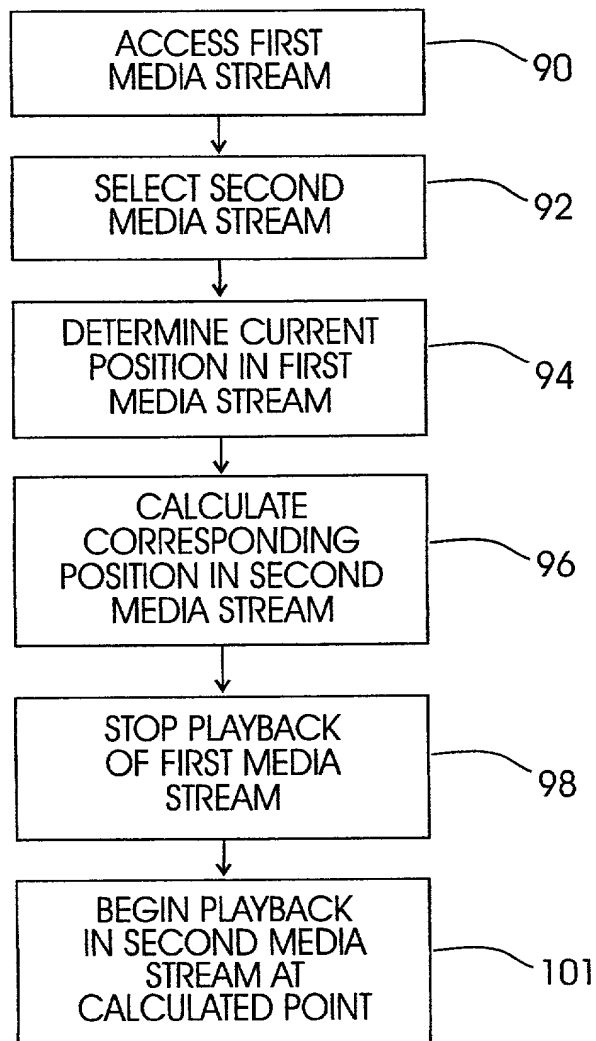


FIG. 4

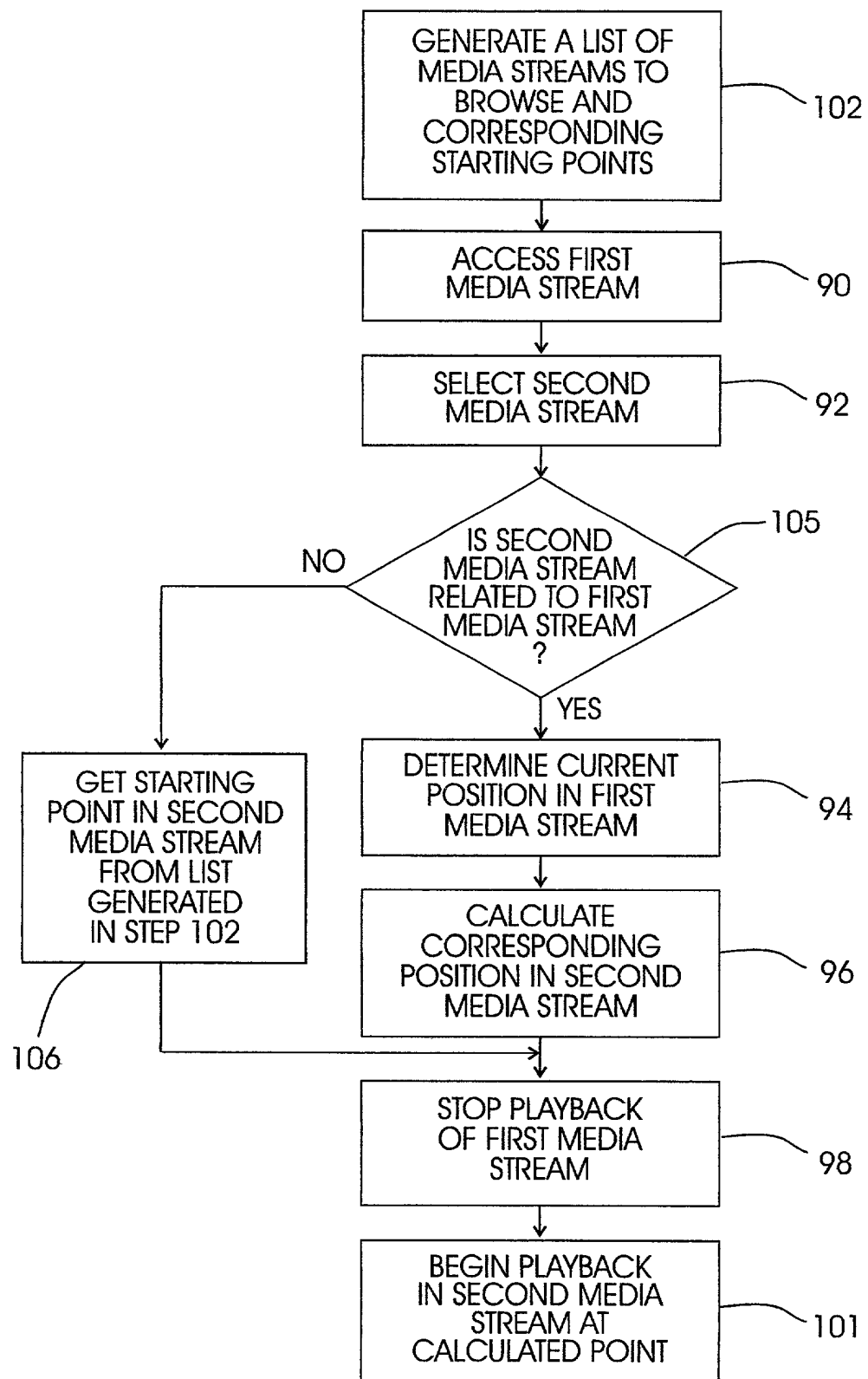


FIG. 5

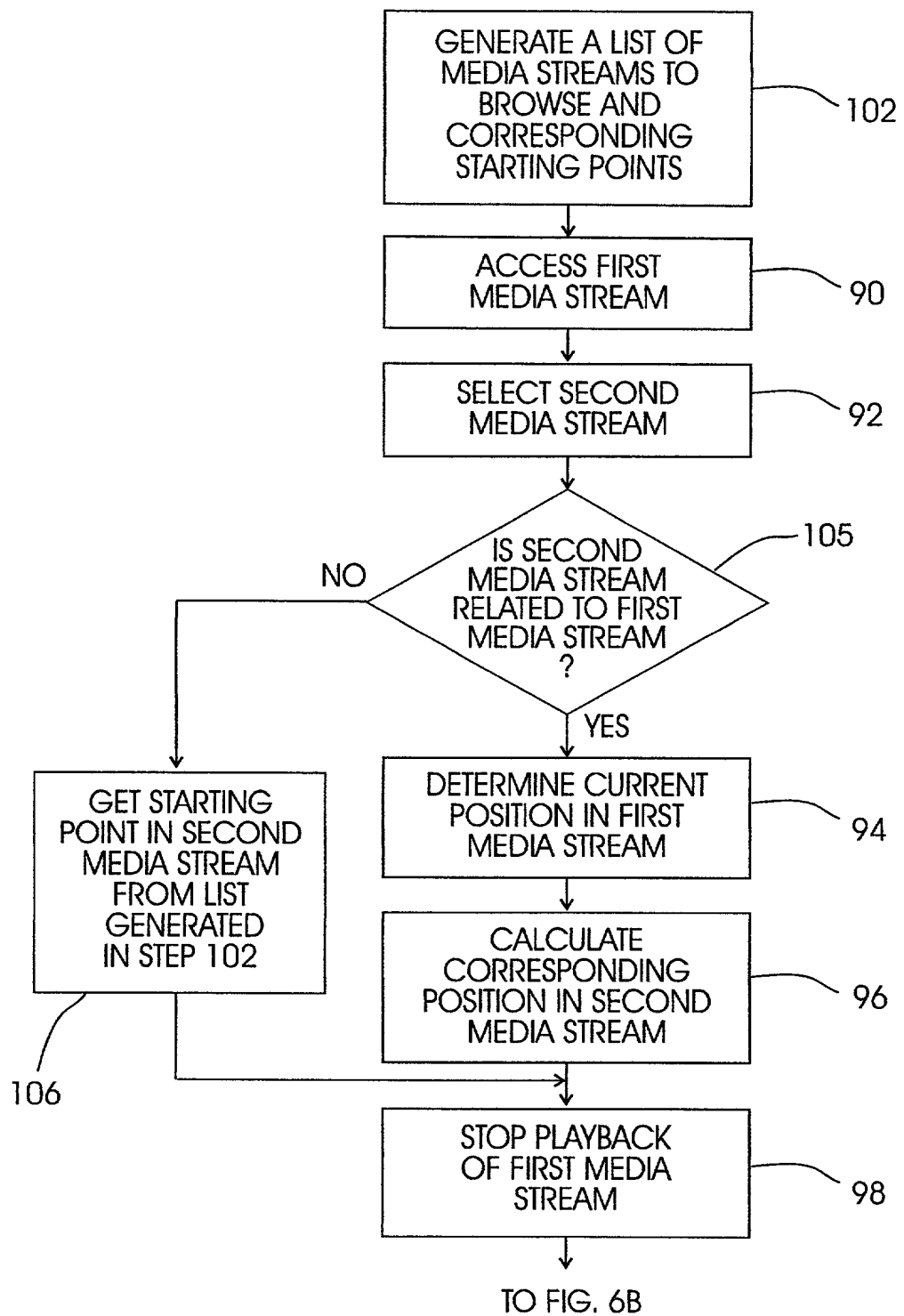


FIG. 6A

FROM FIG. 6A

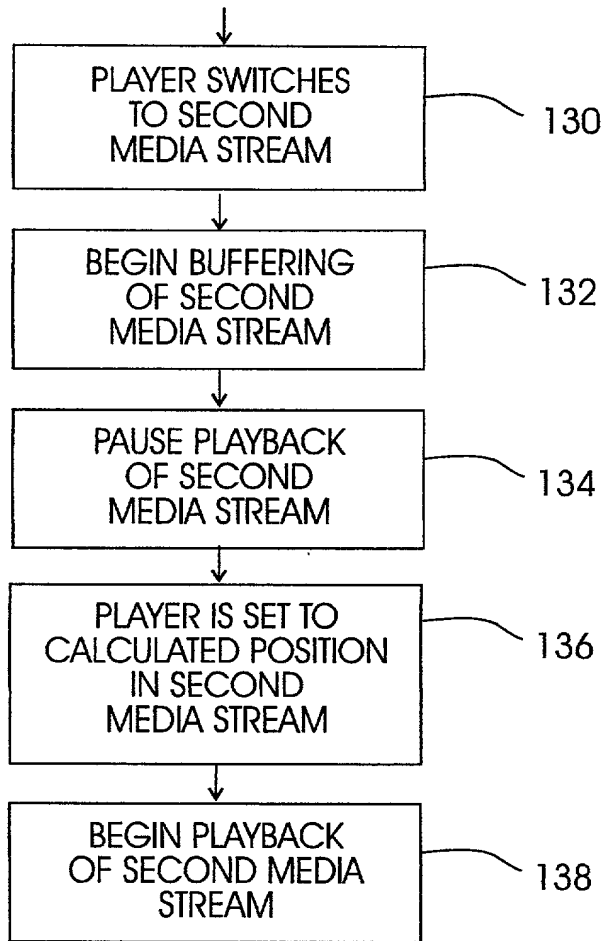


FIG. 6B







```

VideoName =
RealRoot+BaseNames[CurntHit-1]+'_course/video/'+BaseNames[CurntHit-1]+ViewSuffix[Curn
tMode]+'smil';
PlayFullVideo(VideoName, FVStartTimes[CurntHit-1]*CurntRate);
}
}
function RepositionControls() {
PositionTitle();
PositionViews();
VideoName =
RealRoot+BaseNames[CurntHit-1]+'_course/video/'+BaseNames[CurntHit-1]+ViewSuffix[Curn
tMode]+'smil';
PlayFullVideo(VideoName, FVStartTimes[CurntHit-1]*CurntRate);
}

function PositionTitle() {
Title = "";
Title += 'Query: <U>warm</U>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&';
Title += ' Result '+CurntHit.toString()+ '/' + NumOfHits.toString() + ':';
Title += TitleNames[CurntHit-1] + '<BR>';
Title += MatchNames[CurntHit-1];
var output=
'<table width="640" border="0" cellspacing="5" cellpadding="2">'+
'<tr> '+
'<td></td>'+
'</tr>'+
'<tr bgcolor="#21249C"> '+
'<td>&nbsp;<font color="#FFFFFF" face="Helvetica, HELV,
sans-serif">'+Title+'</font></td>'+
'</tr>'+
'</table>';
if (document.all)
document.all('TitleArea').innerHTML = output;
else if (document.layers) {
document.layers['TitleArea'].top=5;
document.layers['TitleArea'].left=5;
document.layers['TitleArea'].width=800;
document.layers['TitleArea'].height=200;
document.layers['TitleArea'].document.open();
document.layers['TitleArea'].document.writeln(output);
document.layers['TitleArea'].document.close();
}
}
}

```

FIG. 7C

```

function PositionViews() {
    bn=BaseNames[CurntHit-1];
    MSBName = RealRoot+bn+'_course/video/'+bn+'.msb.smil';
    FMSBName = RealRoot+bn+'_course/video/'+bn+'.msb_0.666.smil';
    SMSBName = RealRoot+bn+'_course/video/'+bn+'.msb_1.25.smil';
    ANMName = RealRoot+bn+'_course/video/'+bn+'.fixed.smil';
    SB2DName = HttpRoot+bn+'_course/images/'+bn+'.sb0001.html';
    VideoName= RealRoot+bn+'_course/video/'+bn+'.smil';

    var output= '<BR><FORM METHOD=POST>'+
    '<TABLE NOBORDER CELSPACING=5 CELLPADDING=5 WIDTH="640" >'+
    '<TR><TD ALIGN=center>'+
    '<INPUT TYPE="button" Value="Storyboard (SB)"
    onClick="location.href=\''+SB2DName+\'\">'+
    '<INPUT TYPE="button" Value=" Moving SB "
    onClick="JumpToVideo(\''+MSBName+\'',2,1.0)">'+
    '<INPUT TYPE="button" Value=" Fast SB "
    onClick="JumpToVideo(\''+FMSBName+\'',3,0.666)">'+
    '<INPUT TYPE="button" Value=" Slow SB "
    onClick="JumpToVideo(\''+SMSBName+\'',4,1.25)">'+
    '<INPUT TYPE="button" Value=" FullVideo "
    onClick="JumpToVideo(\''+VideoName+\'',1,1.0)">;

    output=output+'</TD></TR>';

    if (NumOfHits>1)
    {
        output = output +
        ' <TR><TD ALIGN=center>'+
        ' <FONT COLOR=WHITE> '+
        CurntHit.toString()+ ' of ' +NumOfHits.toString()+ ' '+
        '<INPUT TYPE="BUTTON" VALUE="Prev Result" onClick="ViewPrev()">'+
        '<INPUT TYPE="BUTTON" VALUE="Next Result" onClick="ViewNext()"></TD></TR>;
    }
    else
    {
        output = output +
        ' <TR><TD ALIGN=right>'+
        ' <FONT COLOR=BLACK> '+A '+' </font>'+
        '</TD></TR>;
    }
}

```

**FIG. 7D**

```

output=output+'</table>';
if (document.all)
document.all("ViewsTable").innerHTML = output;
else if (document.layers) {
document.layers["ViewsTable"].top=350;
document.layers["ViewsTable"].left=10;
document.layers["ViewsTable"].width=600;
document.layers["ViewsTable"].height=200;
document.layers["ViewsTable"].zIndex=40;
document.layers["ViewsTable"].document.open();
document.layers["ViewsTable"].document.writeln(output);
document.layers["ViewsTable"].document.close();
}
}

```

```

function PlayFullVideo(s,i) {
if (s!=CurntSource) {
    if (CurntSource!=null)
        document.Video.DoStop();
document.Video.SetSource(s);
CurntSource=s;
}
else if (CurntOrigLength>0) {
    ThisLength=document.Video.GetLength();
    i=i*ThisLength/CurntOrigLength;
}
CurntPos = i;
if (document.Video.GetPlayState() != 3) {
document.Video.SetVolume(100);
document.Video.DoPlay();
if (CurntPos > 1000)
myTimer=setTimeout('WaitForFirstPlay()',PLAYER_SYNCHTIME);}
else {
if (CurntPos>0) {
document.Video.DoPause();
document.Video.SetPosition(CurntPos);
document.Video.SetVolume(100);
document.Video.DoPlay();
}
}
}
}

```

**FIG. 7E**

```

function WaitForFirstPlay () {
clearTimeout(myTimer);
if (document.Video.GetPlayState() != 3)
myTimer=setTimeout('WaitForFirstPlay()',PLAYER_SYNCHTIME);
else
{
document.Video.DoPause();
if (CurntMode==1)
CurntOrigLength=document.Video.GetLength();
document.Video.SetPosition(CurntPos);
document.Video.DoPlay();
}
}

```

```

function WaitForPlay () {
clearTimeout(myTimer);
if (document.Video.GetPlayState() != 3)
myTimer=setTimeout('WaitForPlay()',PLAYER_SYNCHTIME);
else
{
document.Video.DoPause();
theoffset = CurntPos*CurntRate;
document.Video.SetPosition(theoffset);
document.Video.DoPlay();
}
}

```

```

function JumpToVideo(newvideo,newMode,newRate) {
CurntPos = document.Video.GetPosition()/CurntRate;
document.Video.DoStop();
document.Video.SetSource(newvideo);
CurntMode=newMode;
CurntRate=newRate;
document.Video.DoPlay();
if (CurntPos > 1000)
myTimer=setTimeout('WaitForPlay()',PLAYER_SYNCHTIME);
}

```

**FIG. 7F**

```

function ViewNext() {
if (CurntHit<NumOfHits)
CurntHit=CurntHit+1;
else
CurntHit=1;
//update StartSB time
RepositionControls();
}

```

```

function ViewPrev() {
if (CurntHit>1)
CurntHit=CurntHit-1;
else
CurntHit=NumOfHits;
//update StartSB time
RepositionControls();
}

```

</SCRIPT>

<BODY TEXT="#000000" LINK="#3333FF" VLINK="#3366FF" ALINK="#FFFF00">

<BODY bgcolor="#000000" >

<BODY onLoad=PositionControls() >

<BR>

<SPAN ID="TitleArea"

STYLE="top:5;left:5;height:200;width:800;position:absolute"></SPAN>

<SPAN ID="ViewsTable"

STYLE="top:370;left:5;width:600;height:200;position:absolute"></SPAN>

<BR><BR><BR><BR><BR><BR>

<table border=0 cellpadding="0" cellspacing="0" bgcolor="#000000" width="640" >

<tr>

<td align=center>

<EMBED NAME=Video SRC="http://cvideo.almaden.ibm.com:8080/ramgen/cuelearn/?embed"

WIDTH=600 HEIGHT=200

CONTROLS=ImageWindow CENTER=true CONSOLE=\_master><BR>

</td>

</tr>

<tr>

<td align=center>

<EMBED SRC="http://cvideo.almaden.ibm.com:8080/ramgen/cuelearn/?embed" WIDTH=40

**FIG. 7G**



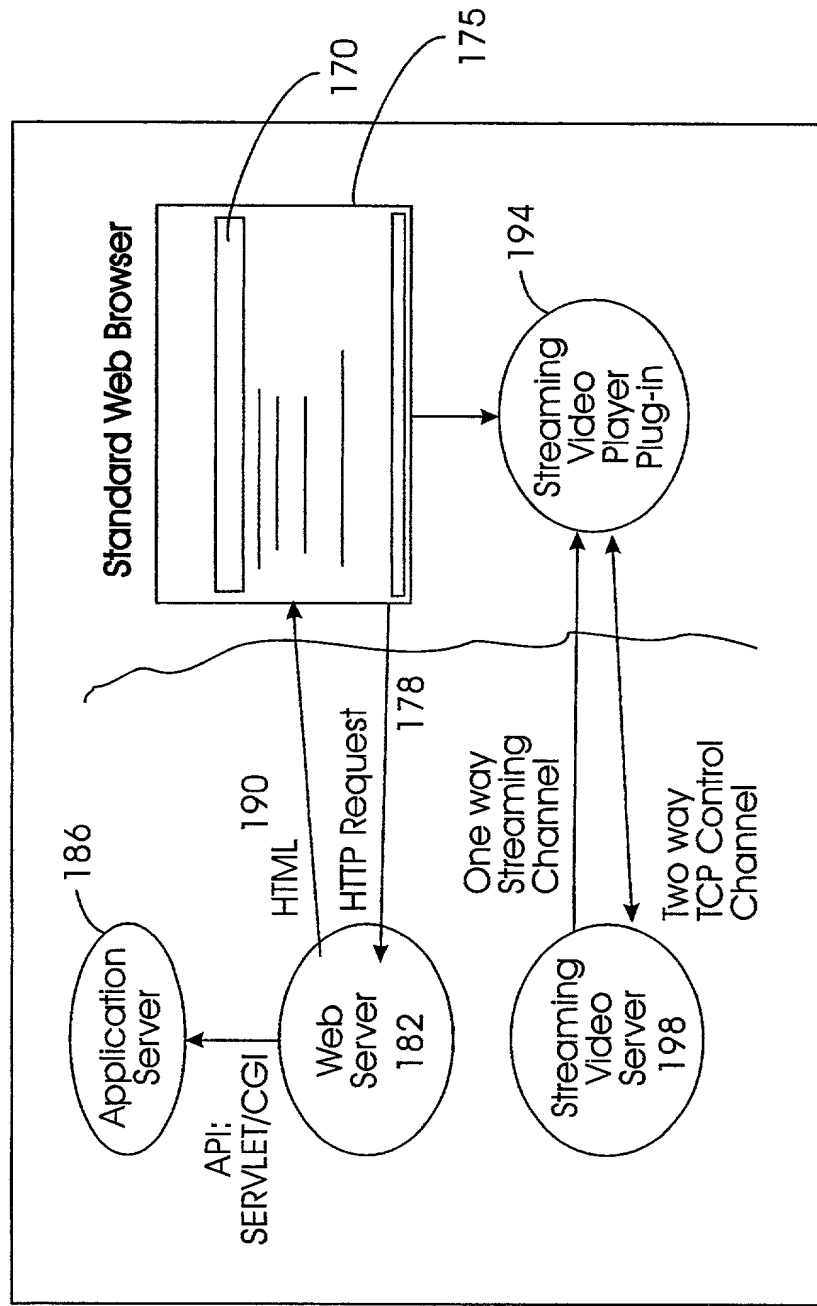


FIG. 8



Skim View	Fast Moving SB	Slow Moving SB	Full Video
----	00:00:00:00	00:00:00:00	00:00:00:00
----	----	00:00:00:01	----
----	----	00:00:00:02	00:00:00:01
----	----	00:00:00:03	----
----	00:00:00:01	00:00:00:04	00:00:00:02
----	...	...	...
----	...	...	...
----	...	...	...
----	...	...	...
00:00:00:00	00:00:02:15	00:00:10:00	00:00:05:00
...	...	...	...
...	...	...	...
...	...	...	...
00:00:05:00	00:00:05:00	00:00:20:00	00:00:10:00
----	...	...	...
----	...	...	...
----	...	...	...
----	...	...	...
----	...	...	...
00:00:05:01	00:00:15:00	00:01:00:00	00:00:30:00
...	...	...	...

FIG. 9

Index n	Fast Moving Storyboard
0	00:00:00:00
4	00:00:00:01
...	...
...	...
1,800	00:00:15:00

Index n	Full video
0	00:00:00:00
2	00:00:00:01
...	...
...	...
1,800	00:00:30:00

**FIG. 10**